WORKMAN NYDEGGER
A PROFESSIONAL CORPOSATION
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1000 EAGLE GATE TOWER

ABSTRACT OF THE DISCLOSURE

A wavelength locker. The wavelength locker can be mounted within an optical

transceiver on a submount with the laser diode. The wavelength locker utilizes light emitted

by the back facet of the laser to monitor the wavelength and power of the laser. The light is

separated into two portions, at least one of which is passed through a filter to shift the

wavelength thereof. Separate monitor diodes or photosensitive areas of a single monitor

diode are used to measure the output of each portion of light. The outputs are analyzed to

determine the wavelength of the light emitted from the back facet as well as the power of the

laser and a controller can then change the temperature of the laser or otherwise adjust the

wavelength of the laser when the wavelength locker detects that the wavelength of the laser

is changing.

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